

# Comparisons of Job Characteristics

**Focus Occupation:** Earth Drillers, Except Oil and Gas (47-5021)

**Associated Occupation:** Rotary Drill Operators, Oil and Gas (47-5012)

[Compare Knowledge](#)

[Compare Skills](#)

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<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 87

**Focus Occupation:** Earth Drillers, Except Oil and Gas (47-5021)

**Associated Occupation:** Rotary Drill Operators, Oil and Gas (47-5012)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Mechanical	6.8	15.3	15.0	0 Current knowledge level may be sufficient
Mathematics	9.2	12.2	8.4	<< Extensive education and/or training may be required
Personnel and Human Resources	5.6	9.2	3.8	<< Extensive education and/or training may be required
Chemistry	4.8	8.1	6.5	< Expanded education and/or training may be required
Transportation	4.6	7.0	5.2	<< Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 82

**Focus Occupation:** Earth Drillers, Except Oil and Gas (47-5021)

**Associated Occupation:** Rotary Drill Operators, Oil and Gas (47-5012)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Operation and Control	5.4	11.5	13.0	> Skill level is likely sufficient
Operation Monitoring	6.6	11.2	13.0	> Skill level is likely sufficient
Quality Control Analysis	5.9	8.8	8.5	0 Current skill level may be sufficient
Repairing	3.4	8.8	8.4	0 Current skill level may be sufficient
Equipment Maintenance	3.5	8.6	9.0	0 Current skill level may be sufficient
Troubleshooting	4.5	8.4	8.0	0 Current skill level may be sufficient
Equipment Selection	3.3	6.2	7.3	> Skill level is likely sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 84			
Focus Occupation: Earth Drillers, Except Oil and Gas (47-5021) Associated Occupation: Rotary Drill Operators, Oil and Gas (47-5012)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Control Precision	6.6	13.0	13.9	0	Current ability level may be sufficient
Multilimb Coordination	6.0	11.6	12.3	0	Current ability level may be sufficient
Selective Attention	8.7	11.5	9.8	<	Some improvement in abilities may be required
Manual Dexterity	6.5	11.4	11.4	0	Current ability level may be sufficient
Rate Control	3.8	10.0	10.6	0	Current ability level may be sufficient
Auditory Attention	5.9	9.7	7.1	<<	Extensive improvement in abilities may be required
Gross Body Equilibrium	3.2	6.9	3.7	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 99
Focus Occupation: Earth Drillers, Except Oil and Gas (47-5021) Associated Occupation: Rotary Drill Operators, Oil and Gas (47-5012)		
Work Activities	Exclusivity of Activity	
Connect sections of drill pipe	99	
Drive truck with capacity greater than 3 tons	72	
Extract core sample or drill rod from well hole	99	
Inspect core samples to determine nature of strata	95	
Maintain or repair construction machinery or equipment	77	
Monitor operation of drilling equipment	95	
Operate earth-moving or other heavy construction equipment	80	
Record drilling progress or geological data	99	
Remove or retrieve tools, equipment, casings or pipe from wells	95	
Use hand or power tools	2	
Use measuring devices in construction or extraction work	41	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: n/a

**Focus Occupation: Earth Drillers, Except Oil and Gas (47-5021)**

**Associated Occupation: Rotary Drill Operators, Oil and Gas (47-5012)**

### Tools and Technologies

### Exclusivity

Tools and technology data is unavailable for one or both occupations.

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.